

Title (en)

DEVICE FOR ABSORBING ELECTROMAGNETIC RADIATION

Title (de)

VORRICHTUNG ZUM ABSORBIEREN VON ELEKTROMAGNETISCHER STRAHLUNG

Title (fr)

DISPOSITIF POUR ABSORBER UN RAYONNEMENT ÉLECTROMAGNÉTIQUE

Publication

EP 2366083 B1 20140305 (DE)

Application

EP 09748224 A 20091008

Priority

- EP 2009007226 W 20091008
- DE 102008050618 A 20081009

Abstract (en)

[origin: WO2010040525A2] The invention relates to a device (3) for absorbing electromagnetic radiation, in particular solar radiation. The device (3) has at least one flexible film pocket (4) that is divided into chambers (15). Said chambers (15) are connected to at least one feed element (5) and at least one discharge element (6), by means of which a heat transfer medium can be fed to and discharged from the chambers (15). To prevent a build-up of pressure in the heat transfer medium caused by gravity and thus unwanted stress on the film material, at least one pressure reducing element (21) is provided between at least two of the chambers (15) or film pockets (4). Said pressure reducing element (21) limits the pressure of the heat transfer medium.

IPC 8 full level

F24J 2/36 (2006.01); **F24J 2/50** (2006.01); **F24J 2/51** (2006.01); **F24S 10/50** (2018.01); **F24S 10/70** (2018.01)

CPC (source: EP US)

F24S 10/501 (2018.04 - EP US); **F24S 10/502** (2018.04 - EP US); **F24S 20/55** (2018.04 - EP US); **F24S 40/50** (2018.04 - EP US); **F24S 40/58** (2018.04 - EP US); **F24S 80/525** (2018.04 - EP US); **F24S 80/56** (2018.04 - EP US); **F24S 80/58** (2018.04 - EP US); **F24S 80/60** (2018.04 - EP US); **F24S 2080/05** (2018.04 - EP US); **Y02B 10/20** (2013.01 - EP US); **Y02E 10/44** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

DE 102008050618 B3 20100401; AU 2009301361 A1 20100415; AU 2009301361 B2 20140710; DK 2366083 T3 20140616; EP 2366083 A2 20110921; EP 2366083 B1 20140305; ES 2468340 T3 20140616; PL 2366083 T3 20140731; US 2011197878 A1 20110818; WO 2010040525 A2 20100415; WO 2010040525 A3 20110811

DOCDB simple family (application)

DE 102008050618 A 20081009; AU 2009301361 A 20091008; DK 09748224 T 20091008; EP 09748224 A 20091008; EP 2009007226 W 20091008; ES 09748224 T 20091008; PL 09748224 T 20091008; US 200913123366 A 20091008